AMENDMENT

Please amend the claims according to the following listing of claims and substitute it for all prior versions and listings of claims in the application.

In the Claims:

1. (previously presented) A chip-packaging stack structure, comprising:

a plurality of chip-packaging units, suitable for stacking one over another, wherein each of the chip-packaging units comprises:

a substrate, having a top surface and a corresponding bottom surface, a plurality of upper contacts disposed on the top surface, and a plurality of lower contacts disposed on the bottom surface, wherein the upper contacts are electrically connected to the lower contacts respectively;

a chip disposed on the top surface of the substrate and having a plurality of inner contacts and a plurality of outer contacts, wherein the inner contacts are electrically connected to the outer contacts respectively;

a plurality of wires, respectively connected to the upper contacts and the inner contacts;
a molding compound covering the wires, the chip and the upper contacts of the substrate,
wherein the molding compound has an opening for exposing the outer contacts, and the outer
contacts remain exposed on a surface of the chip which also serves as an external surface of the
packaging unit; and

a plurality of solder balls, respectively connected to the lower contacts and being corresponding to the outer contacts of other chip-packaging units for electrically connecting the chip-packaging units.

- 2. (original) The chip-packaging stack structure according to claim 1, wherein the outer contacts are disposed in central area on a surface of the chip, and the inner contacts are disposed in a periphery area on a surface of the chip.
- 3. (original) The chip-packaging stack structure according to claim 2, wherein the outer contacts are disposed in a surface array distribution.
- 4. (original) The chip-packaging stack structure according to claim 3, wherein the outer contacts are corresponding to the lower contacts, and the lower contacts are disposed in a surface array distribution in a central area of a surface of the bottom surface.
- 5. (original) The chip-packaging stack structure according to claim 1, wherein the chip further comprises a plurality of bonding pads and a redistribution layer disposed on a surface of the chip, and the bonding pads are respectively connected through the redistribution layer to the inner contacts and the outer contacts.
- 6. (original) The chip-packaging stack structure according to claim 1, wherein the chip further comprises a plurality of bonding pads, a portion of which constitute the inner contacts, and the other portion of which constitute the outer contacts.
- 7. (original) The chip-packaging stack structure according to claim 1, wherein the chip-packaging units are disposed in a distribution of a ball grid array.

8. (original) The chip-packaging stack structure according to claim 1, wherein the substrate is made of ceramic, glass, or plastics.

9. (original) The chip-packaging stack structure according to claim 1, further comprising a heat dissipating plate, disposed on the top layer of the chip-packaging units and in the opening of the molding compound of the top layer.

Claims 10-13 (cancelled)

14. (previously presented) A chip-packaging unit comprising:

a substrate, having a top surface and a corresponding bottom surface, a plurality of upper contacts disposed on the top surface, and a plurality of lower contacts disposed on the bottom surface, wherein the upper contacts are electrically connected to the lower contacts respectively;

a chip, disposed on the top surface of the substrate and having a plurality of inner contacts and a plurality of outer contacts;

a plurality of wires, respectively connected to the upper contacts and the inner contacts;

a molding compound, covering the wires, the chip and the upper contacts of the substrate, and having an opening for exposing the outer contacts on a surface of the chip which is an external surface of the chip-packaging unit.

15. (original) The chip-packaging unit according to claim 14, further comprising a plurality of solder balls disposed respectively on the lower contacts.

16. (original) The chip-packaging unit according to claim 14, wherein the chip further comprises a plurality of bonding pads and a redistribution layer disposed on a surface of the chip, and the bonding pads are respectively connected through the redistribution layer to the inner contacts and the outer contacts.

17. (original) The chip-packaging unit according to claim 14, wherein the chip further comprises a plurality of bonding pads and a portion of the bonding pads constitute the inner contacts and the other portion of the bonding pads constitute the outer contacts.

18. (original) The chip-packaging unit according to claim 14, wherein the substrate is made of ceramic, glass, or plastics.